Dinuclear Gold Catalysis: A New Platform for Cross-Coupling Reactions

Fact Sheet

Project Information

TWINGOLD
Grant agreement ID: 792649
Project website

Funded under
H2020-EU.1.3.2.

Overall budget
€ 170 121,60
EU contribution
€ 170 121,60

Start date
3 January 2019
End date
8 February 2021

Coordinated by
FUNDACIO PRIVADA INSTITUT CATALA D'INVESTIGACIO QUIMICA
Spain

Objective

Gold catalysis has become a powerful tool for organic chemists to streamline synthesis of valuable and complex molecules. Compared to other transition metals, gold complexes are remarkably stable towards air and water, and are essentially non-toxic, which make them ideal candidates to execute catalytic cross-coupling reactions in industry or in vivo. TWINGOLD aims at broadening the current applications of gold catalysis, exploring and identifying reliable dinuclear gold(I) catalysts in C-C forming reactions. The use of dinuclear gold catalysts could lower activation barriers of chemical transformations and thus allow access to reaction pathways that are difficult to accomplish with mononuclear gold systems. TWINGOLD will promote gold catalysis significantly by exploring novel cross-coupling reactions and the related mechanistic elements behind them, enabling use...
of more diverse raw materials and, thus, ensuring a more sustainable and inclusive economy in EU. In addition, the project will enable the Experienced Researcher to develop a full range of scientific and transferable skills following a personalized Career Development Plan to become an established researcher (R3).

Field of science
/natural sciences/chemical sciences/inorganic chemistry/inorganic compounds

Programme(s)

Topic(s)

Call for proposal

H2020-MSCA-IF-2017

Funding Scheme

MSCA-IF-EF-ST - Standard EF

Coordinator

FUNDACIO PRIVADA INSTITUT CATALA D'INVESTIGACIO QUIMICA

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Avenida Paissos Catalans 16
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Activity type
Research Organisations

EU contribution
€ 170 121,60

Website
Contact the organisation

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